Tutorial 1

Exercise 1

Without using the computer, dry run the following Python program.

```
print("The height of the tree is :")
print(h)
if h > 10:
   print("It is a tall tree")
elif h <= 3:
    print("It is a short tree")
else:
    print("It is a medium tree")
i = 0
while i<h:
    j = 0
    while j<i+1:</pre>
       print("*", end = '')
        j += 1
    print()
    i += 1
```

Exercise 2

Write a python program that calculates the sum of odd number up to n=17.

Exercise 3

Write a program that counts the number of vowels of a string in the first argument to the program. That is,

```
E.g.
text = "asdfasdofy99mnbpki"
```

It should give the following output:

```
Number of vowels in the word: asdfasdofy99mnbpki is 4
```

Exercise 4

Write a Python program that shows the boundary elements in a matrix.

```
That is, given int A[][] = \{\{1, 2, 3, 4\}, \{5, 6, 7, 8\}, \{2, 3, 5, 9\}\},
```

The expected output:

Hint:

https://www.journaldev.com/23642/python-concatenate-string-and-inthtps://www.geeksforgeeks.org/print-without-newline-python/